



#37/H
Hawkins
PATENT APPLICATION 4/30/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Masayuki KIKUSHIMA et al.

Group Art Unit: 2834

Application No.: 09/120,806

Examiner: M. Budd

Filed: July 23, 1998

Docket No.: 101151

For: PIEZO-ELECTRIC RESONATOR AND MANUFACTURING METHOD THEREOF

AMENDMENT UNDER 37 C.F.R. §1.111

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

In reply to the Office Action dated February 4, 2002, please amend the above-identified application as follows:

IN THE CLAIMS:

Please replace claim 8 as follows:

8. (Four Times Amended) A piezo-electric resonator comprising:
a housing having a base and defining an internal atmosphere;
the base having an opening formed therein which allows the internal atmosphere to communicate with an atmosphere external to the housing; and
a piezo-electric resonator element provided in the housing, the piezo-electric resonator element being a tuning fork type resonator element having a base portion and two resonating arms elongated from the base portion, the base portion mounted on the base at the side of the base portion from which the resonating arms are not elongated, and the opening being formed at a position of the base opposite to a frequency-adjusted area of at least one of the resonating arms of the piezo-electric resonator element.